

Amendment To The Claims

Please add the following claims:

40. An article of manufacture comprising:

a substantially transparent substrate having a desired shape with at least one curved surface and substantially the same maximum dimension in at least two orthogonal directions; and

a multilayer thin film interference coating covering over substantially the entire surface of said substrate,

said coating comprising alternating layers of substantially non-absorbing materials (a) where the materials in said alternating layers have materially different refractive indices with respect to each other and (b) where the thicknesses of said alternating layers and the identities of the materials are such that said coating will preferentially reflect at least some of the incident light with wavelengths between 400 nm and 700 nm inclusive.

41. The article of Claim 40 in which said substrate is selected from the group consisting of silicon dioxide, aluminum oxide, tantalum oxide, niobium oxide, titanium dioxide, hafnium dioxide, zirconium dioxide, magnesium fluoride, calcium fluoride, zinc sulfide, zinc selenide and carbon.

42. The article of Claim 40 in which the substrate is comprised of a polymeric material and said alternating layers are comprised of metal oxides.

43. The article of Claim 40 wherein said coating is substantially transmissive of incident light within a predetermined band of wavelengths.

44. An article of manufacture comprising:

a substantially transparent substrate having a desired shape with substantially the same maximum dimension in three orthogonal directions and at least one generally circular cross-section; and

a multilayer thin film interference coating covering over substantially the entire surface of said substrate,

said coating comprising alternating layers of substantially non-absorbing materials (a) where the materials in said alternating layers have materially different refractive indices with respect to each other and (b) where the thicknesses of said alternating layers and the identities of the materials are such that said coating will preferentially reflect at least some of the incident light with wavelengths between 400 nm and 700 nm inclusive.

45. A method of making an article of manufacture comprising the steps of:

(a) providing a substantially transparent, three dimensional substrate having at least one curved surface and substantially the same dimensions in at least two orthogonal directions;

(b) depositing a multilayer thin film interference coating on substantially the entire surface of the substrate,

said coating comprising alternating layers of substantially nonabsorbing materials (i) where the alternating layers have materially different refractive indices with respect to each other and (ii) where the thicknesses of the alternating layers and the identities of the materials are such that the coating will preferentially reflect at least some of the incident light with wavelengths between 400 nm and 700 nm inclusive.

46. The method of Claim 44 wherein the substrate is comprised of a polymeric material and the materials in the alternating layers are metal oxides.

47. The method of Claim 44 wherein the coating is substantially transmissive of incident light within a predetermined band of wavelengths.

48. A method of making an article of manufacture comprising the steps of:
(a) providing a substantially transparent, three dimensional substrate having substantially the same dimensions in at least two orthogonal directions and at least one generally circular cross-section;

(b) depositing a multilayer thin film interference coating on substantially the entire surface of the substrate by a chemical vapor depositing process,
said coating comprising alternating layers of substantially nonabsorbing materials
(i) where the alternating layers have materially different refractive indices with respect to each other and (ii) where the thicknesses of the alternating layers and the identities of the materials are such that the coating will preferentially reflect at least some of the incident light with wavelengths between 400 nm and 700 nm inclusive.

Status Of Claims And Support For Claim Changes

Claims 1-12 that issued in U.S. Patent No. 6,197,428 B1 are pending. Claim 1 has been amended as shown on Page 2 of the Amendment filed November 7, 2003.

Claims 13-39 were previously added by physically incorporating the claims into the specification at the time the re-issue application was filed. Claims 13-39 are pending.

Claim 13, 17, 22, 27, 28, and 35 have been amended as shown on Pages 2-4 of the Amendment filed November 7, 2003.

Claims 40-48 have been added with this Amendment. The support for certain of the limitations found in the newly added claims may be found, for example, as follows:

The dimensions of the substrate - Figure 1 and the turtle shape disclosed at column 5, line 46;

The materials – column 4, lines 28-35 and 54-56;

The deposition process – column 4, lines 57-58;

The transmissivity of the layers – column 4, lines 22-24; and

The non-absorption of the substrate – column 4, lines 34-40.

Further support for all pending claims and newly added claims may be found on Pages 6-9 of this Amendment.